

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### FOIL and Factor solution (version 118)

FOIL the expressions shown below:

1.  $(x + 2)(x + 2)$

$$x^2 + 4x + 4$$

2.  $(x - 8)(x - 9)$

$$x^2 - 17x + 72$$

3.  $(x - 2)(x - 3)$

$$x^2 - 5x + 6$$

4.  $(x - 7)(x + 9)$

$$x^2 + 2x - 63$$

5.  $(x + 8)(x - 7)$

$$x^2 + x - 56$$

**Factor the expressions shown below:**

6.  $x^2 + 18x + 81$

$$(x + 9)(x + 9)$$

7.  $x^2 - 10x + 21$

$$(x - 7)(x - 3)$$

8.  $x^2 - 4$

$$(x - 2)(x + 2)$$

9.  $x^2 + 2x - 3$

$$(x + 3)(x - 1)$$

10.  $x^2 - 16x + 63$

$$(x - 9)(x - 7)$$